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UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 84-R-0007 CUSTOMER NUMBER: 1086

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Colorado Serum Company 4950 York Street Denver, CO 80216

Telephone: (303) -295-7527

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Alached Listing

One facility - see above.

A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, leaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquitizing drugs were used.	E. Number of animals upon which leaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	0	0	0	O	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	45	545	138	1240	1923
7. Hamsters	0	0	0	21	21
8. Rabbits	9	0	107	0	107
9. Non-human Primates	-	-	_		-
10. Sheep	-	_	_	_	-
11. Pigs	_	_	_	_	Que
12. Other Farm Animals	_		_		
3. Other Animals	_		-		
				49	

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reserved teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary inbrief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)				
SIGNATURI	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED		
		10-10-0		

APHIS FORM (AUG 9 which is obsolete.)

Colorado Serum Company License No. 84-R-0007

For FY 2001 – 2002 Annual Report of Registered Research Facility – APHIS Form 7023

Each animal in each referenced test was employed in testing a Licensed Veterinary Biological product as required by Federal Regulations as codified in Title 9 CFR. Humane euthanasia of animals on 9 CFR required tests are provided for in Federal Register publication dated August 21, 1995 citing part 117.4(d) – Animals at Licensed Establishments – test animals (filed August 18, 1995) has been initiated and included as standard testing protocol. Attending veterinarians and related employees have been informed and Colorado Serum Company is complying with this regulation.

Explanation of usage of animals listed in Column E.

Line Item 6.

Guinea Pigs

1240 Guinea Pigs were tested causing pain, for which no anesthetic, analgesics, or tranquilizers could be used. A detailed breakdown of guinea pigs by test reference is provided.

9 CFR 113.451(d)	Tetanus Antitoxin potency testing – 1003
	guinea pigs.

9 CFR 113.106(c)	Clostridium	chauvoei	Bacterin	potency
	testing - 141	guinea pig	S	

9 CFR 113.107(c)	Clostridium	haemolyticum	potency
	testing - 42 gr	iinea nigs	

9 CFR 113.108 (c) Clostridium novyi potency testing – 29 guinea pigs

9CFR 113.109 (c) Clostridium sordellii potency testing – 25 guinea pigs

ATTACHMENT NO. 1

Page 2 of 2001 – 2002 report

Colorado Serum Company License No. <u>84-R-0007</u>

Line Item 7.

Hamsters

21 Hamsters were tested causing pain, for which no anesthetics, analgesics, or tranquilizers could be used. A detailed breakdown of hamsters by test reference is provided.

9 CFR 113.101	Leptospira Pomona Bacterin testing – 6 hamsters.	potency
9 CFR 113.102	Leptospira Icterohaemorrhagiae potency testing – 5 hamsters.	Bacterin
9 CFR 113.103	Leptospira Canicola Bacterin testing – 5 hamsters.	potency
9 CFR 113.104	Leptospira Grippotyphosa potency testing – 5 hamsters.	Bacterin

UNITED STATES DEPARTMENT OF AGRICULTURE

ANIMAL AND PLANT HEALTH INSPECTION SERVICE

See attached form for additional information.

1273

Interagency Report Control No.:

1. CERTIFICATE NUMBER: 84-R-0051

CUSTOMER NUMBER:

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Genesis Laboratories, Inc. 10122 N.E. Frontage Road Wellington, CO 80549

Telephone: (970) -568-7059

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS	USED BY OR UNDER (CONTROL OF RESEAR	CH FACILITY (Attach additiona	al sheets if necessary or use APHIS Form 7023A)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. ('An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs	0	48	0	0	48
7. Hamsters					
8. Rabbits					,
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals			-,		
Wild Norway RAT	90	66	0	40	106
Wild Heave Mouse		32	0	36	68
Plain i Pocker Goph		27	0	23	50
ASSURANCE STATEMENTS	<u> </u>				

- 1) Professionally acceptable standards governing the core, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and app Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

	CERTIFICATION BY HEADQUARTERS RESEARCH FACILI (Chief Executive Officer or Legally Responsible Institutional		
SIC	NAME & TITLE OF C.E.O. OR INSTIT	TITIONAL OFFICIAL (Type or Print)	DATE SIGNED
			11-27-02
APF	38), which is obsolete.)		

(AUG 91)

See reverse side for additional information.

Interagency Report Control No. 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

5 6413

1. REGISTRATION NO. 8.4 - R - 0.05 I

FORM APPROVED OMB NO. 0579-0036

CONTINUATION SHEET FOR ANNUAL REPORT
OF RESEARCH FACILITY
(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

Genesis Laboratories, Inc.

C-enesty Laboratories, the 10122 N.E. Frindage Road Wellington, CO 80549

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach adictitional sheets if necessary or use this form.)					
A. Animals Covered By The Animal Welfare Regulations 12. &/OR 13. Other (List by species)	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs wore not used must be attached to this report).	TOTAL NO. OF ANIMALS (Cols. C + D + E)
White facted Moure	170	56	0	74	<i>j30</i>
White forted Mouse Elk	C	5	0	0	30 5
					
					·
,					
ASSURANCE STATEMENTS					

- 1). Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures.
- 3). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the lustitutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4). The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).					
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
See Page 1.		184, t. j			

HEADQUARTERS OF RESEARCH FACILITY	FACILITY LOCATIONS
GENESIS LABORATORIES, INC.	GENESIS LABORATORIES, INC.
10122 N. E. FRONTAGE ROAD	10122 N. E. FRONTAGE ROAD
WELLINGTON, COLORADO 80549	WELLINGTON, COLORADO 80549
Registration # 84-R-051	Registration #: 84-R-051

The explanations contained in this report were approved by the Genesis Laboratories, Inc, IACUC committee.

ANIMALS REPORTED IN COLUMN E

Wild Norway Rat (Rattus norvegicus)

Forty (40) rats used were from column E in the Annual Report. All animals used were used in studies testing rodenticides. USEPA, Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), Pesticide Assessment Guideline Subdivision G, Section 96-10, Commensal Rodents (OPP: 1.213 Standard Norway Rat/Roof Rat Wax Block Bait Laboratory Test Method) was followed during these procedures. FIFRA mandates that efficacy data be generated to support label claims for Norway rat control. For rodenticide efficacy studies, no appropriate anesthetic, analgesic, or tranquilizing drugs were used to relieve the pain. There are no alternatives available to this painful procedure. Logic dictates that the only alternative to administration of a toxic product (which is intended to kill animals, and cause unavoidable pain in that process) is not to administer the toxic product. Poisonous substances cause tissue damage, which results in pain perception. One potential alternative is to develop products which create unconsciousness or analgesia prior to death. However, information is not yet available to design such products, which would be effective for rodent control.

Wild House Mouse (Mus musculus)

Thirty six (36) mice used were from column E in the Annual Report. All 36 were used for product efficacy testing of mouse-trapping glue boards. There are no federal guidelines for this testing. The mice were placed, one at a time, in arenas containing one glue board. Trapped animals experience distress. Because trapped mice can escape through active efforts, they were left on the boards for up to 30 minutes. Animals were euthanized with CO² gas within 30 minutes of being trapped. The investigator and the IACUC determined that administration of any substance which would relieve distress would interfere with the outcome of the test – handling the trapped animal to administer a substance, and the action of any substance on the behavior of a trapped animal, would bias the results.

Pocket Gophers (Geomys bursarius)

Twenty-three (23) animals used were from column E in the Annual Report. Twenty (20) animals used were used in studies testing rodenticides. USEPA, Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), Pesticide Assessment Guideline Subdivision G, Section 96-11 (Product Performance – Rodenticides for Orchards) was followed during these procedures. For rodenticide efficacy studies, no appropriate anesthetic, analgesic, or tranquilizing drugs were used to relieve the pain. There is no alternatives available to this painful procedure. Logic dictates that the only alternative to administration of a toxic product (which is intended to kill animals, and cause unavoidable pain in that process) is not to administer the toxic product. Poisonous substances cause tissue damage, which results in pain perception. One potential alternative is to develop products which create unconsciousness or analgesia prior to death. However, information is not yet available to design such products, which would be effective in the field for rodent control. Additionally, use of any analgesic, anesthetic, and tranquilizing drugs in the secondary hazard study is restricted by USEPA (guideline 96-11).

Three (3) animals were used in a study involving administration of a non-toxic substance by oral gavage. No pain and only transient distress were anticipated based on experience administering substances to other rodent species via oral gavage. Upon initiating the procedure, it was apparent that pain and distress were resulting. Because of the pain and distress observed, the procedure was suspended.

White Footed Mouse (Peromyscus leucopus)

Seventy-four (74) animals used were from column E in the Annual Report. All animals used were used in studies testing a plant defoliant. USEPA, Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), Pesticide Assessment Guideline Subdivision G, Section 71-2 (Acute Dietary Toxicity) was followed during these procedures. By regulatory fiat, USEPA dietary toxicity studies direct that no anesthetic, analgesic, or tranquilizing drugs can be used to relieve the pain. There are no alternatives available to this painful procedure. The only alternative to administration of a toxic product is not to administer the toxic product. Poisonous substances cause tissue damage, which results in pain perception. The USEPA mandated this test using white-footed mice since they represent a species at risk of exposure to the test substance in agricultural settings, and are an important prey item for other wildlife which may be at risk from secondary exposure.

See attached form for additional information.

Interagency Repart Compol No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 84-R-0059
CUSTOMER NUMBER: 1834

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

University Of Colorado (Hsc) 4200 E. 9th Avenue, Box A-095 Denver, CO 80262

Telephone: (303) -724-1057

Cla 116

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS Form 7023A)					
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yoused for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquilized drugs would have adversely affected the procedures, resion interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs			31	~	31
5. Cats					0
6. Guinea Pigs		9	158		167
7. Hamsters		35			35
8. Rabbits		25	105	48	1 78
9. Non-human Primates	44	18	5	3	26
10. Sheep			153	22	175
11. Pigs			93	5	98
2. Other Farm Animals					
3. Other Animals					
Gerbils		50			50

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual resenteaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and applicational Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

	CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)	
SIGN	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) DATE SIGNED
		11/26/0
APHI:	h is obsolete.)	<u></u>

CATEGORY E STUDIES

1. Sheep exposed to heat stress - 22 sheep

Description of Procedures:

Pregnant sheep are placed in an environmental chamber that cycles room temperature between 40-40.5 °C for 12-14 hours/day and 35 °C for the remainder of the day from day 33-35 of gestation until day 90-115. Humidity in the chamber is 45-50%. Animals are housed in standard cages with ad lib water and food. For safety, the heating system is equipped with an alarm and automatic cut-off system.

Explanation of Reasons Why Pain- or Distress- Reliving Drugs Were Not Used:

The procedure is designed to mimic a naturally occurring phenomenon, namely, pregnancy in hot climates where fetal intrauterine growth retardation is a common problem. The animals in the chamber under these conditions give no visual or clinical indication of stress. They eat and drink normally; their stool pattern is also normal; and their wool continues to grow. The procedure does alter placental development, but since altered placental development is not known to be associated with pain or distress in any species, use of any drug or other treatments would be speculative and possibly problematic for fetal development.

2. Rabbits exposed to bacteria infection - 48 rabbits

Description of Procedures:

This is a study of the effects of exposure to bacteria during the birth process. The goal of the protocol is to determine, after intra-cervical inoculation of pregnant rabbits with E. coli, G. vaginalis or B. bivius and treatment with antibiotics, the extent of tissue damage over time and whether therapeutic intervention with IL-1a reduces fetal injury. Timed pregnant rabbits at 70% gestational age are anesthetized and inoculated intracervically with 10³ to 10⁴ CFU E. coli, G. vaginalis or B. bivius. Some animals are treated with ampicillin sulbactam. At 1 to 7 days after inoculation, the animals are euthanized and the tissues evaluated. In another group, rabbits are given IL-1ra or saline each day (iv; ear vein) for 5 hours each day. This study requires an iv drip for 5 hours/day, therefore restraint is needed for the constant infusion. After consultation with the University Veterinarian, a wire rabbit box without neck restraint was chosen. The rabbits are gradually acclimated to this restraint over a 5 day time period. At 1, 3 and 5 days, animal are euthanized and the tissues evaluated.

Explanation of Reasons Why Pain- or Distress- Reliving Drugs Were Not Used:

It is important to understand the risk of maternal and newborn infection. It is therefore necessary to allow the experiment to continue until it can be determined whether or not the does and neonatal rabbits become infected by exposure to bacteria during the birth process. Antibiotics and IL-1ra treatment given to mothers before delivery may be an effective treatment. The difference in outcome of animals given IL-1ra and those not treated is the focus of these studies. Drugs given to relieve any possible distress would mask the degree of infection and interfere with the immunoassays to be done, therefore none are given.

3. Food restriction in pigs – 5 pigs

Description of Procedures:

The goal of the protocol is to provide hands on training for Board Certified Gastroenterologists and Gastroenterology Nurses in the technique of endoluminal gastroplication, a gastral endoscopic suturing technique. The pigs are placed on a preprocedural food restriction for 48 hours where they are fed Jell-O on day one and honey/water on day 2. The pigs are then anesthetized and the endoluminal gastroplication performed. The animals are euthanized by an anesthetic overdose at the end of the non-survival surgery.

Explanation of Reasons Why Pain- or Distress- Reliving Drugs Were Not Used:

Due to the highly technical nature of the endoluminal gastroplication procedure, proper training of Physicians and Nurses is required for optimal safety and efficacy of performing this procedure on human patients. The full 48 hour food restriction as described above is required to ensure that the stomach is completely clean for ease of visualization by the Physicians and Nurses learning the procedure. The procedure, endoluminal gastroplication, requires careful examination of the internal mucosal lining of the stomach. Thus, even a small amount of residual material inside the stomach is unacceptable because it interferes with proper visualization, and thereby impairs the trainee's ability to learn how to perform this procedure. Alternative procedures to clean out the digestive tract are not acceptable since the mucosal lining becomes bloody, thereby decreasing visualization.

4. Parkinsonian Syndrome in non-human primates - 3 monkeys (M. radiata)

Description of Procedures:

The Parkinsonian syndrome is induced when MPTP-HCL is infused into the carotid artery to produce a stable unilateral lesion in the monkey. A dose of 0.8 mg/kg MPTP-HCL dissolved in 50 cc of sterile normal saline infused into the carotid artery over

20 minutes leads to unilateral dilation of the pupil and a weak arm and leg contralateral to the side of the lesion and sensory neglect on that side. The animals are infused at a rate of 2 ml/minute using a 30 gauge needle with the infusion in the direction opposite the normal arterial blood flow. Analgesics are given to all animals for any post-operative pain. The result of the surgical procedure is a weak arm and leg and sensory neglect on the side opposite the lesion. (Water bottles are adjusted for this disability.) Thus, once monkeys have been lesioned, abilities such as locomotion, visual fields, grasping, climbing, etc. are impaired. In addition, the lesioned animals are sensitive to sound and have an enhanced startle response. After the lesioning procedure has produced the hemiparkinsonian effect, each animal is assessed daily for any pain. L-dopa is given as needed to assist the animal in daily routine procedures. In addition, monkey's food intake is carefully assessed and animals are hand fed if necessary until they have learned to adapt to their limitations. Daily fruit, sunflower seed, pomegranate seeds, peanuts, etc., are provided to occupy their foraging behavior. The post lesion state lasts about six to eight months. As the animals become more adept with their routine movements, more foraging materials and additional toys are introduced.

Explanation of Reasons Why Pain- or Distress- Reliving Drugs Were Not Used:

To study the effective treatment of Parkinson's disease, an animal model of the disease is essential. There are currently no effective long-term treatments for this disease and therefore no way to completely eliminate the distress that may be associated with the physical limitations imposed by this disease. It is the goal of this study to test a treatment that may effectively cure the monkeys and, ultimately, human beings.

EXCEPTIONS TO REGULATIONS

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The IACUC has approved an exception to the policy regarding multiple surgeries, specifically the placement of maternal and fetal catheters in sheep. The goal of the protocol is to determine how fetal glucose, amino acid and plasma insulin availability regulate fetal energy and amino acid metabolism and thereby lead to changes in fetal growth. For the 2-3 week chronic studies, an initial surgery is done to catheterize the mother's femoral artery and vein. The catheters allow the Investigators to produce, by IV infusion, the necessary metabolic conditions (e.g. insulin-induced hypoglycemia; glucose induced hyperglycemia) and for arterial blood sampling. The fetus is too small to catheterize at this time, and maintaining patency of fetal catheters for more than 2 weeks is very difficult. Thus, a second surgery to place uterine and fetal catheters is done when the fetus is big enough and close enough to final study. The fetal catheters are then used for infusions in both hyperglycemic and hypoglycemic studies and for blood sampling. Within the last reporting period, seventy sheep have had multiple surgeries for placement of maternal and fetal catheters.

The USDA Sector Supervisor has approved an exception to the policy regarding multiple survival surgeries, specifically multiple Cesarean sections in Bonnet monkeys (letter dated 6/29/94). There is currently a moratorium on the importation of Bonnet monkeys. Therefore, multiple surgeries will use the fewest possible number of a rare species. No multiple Cesarean sections were performed during this reporting period under this exception. However, one non-human primate received a single Cesarean section in the past year.

additional information.

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 84-R-0001

CUSTOMER NUMBER: 1080

FORM APPROVED OMB NO. 0579-0035

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

National Jewish Medical & Research Center 1400 Jackson St., Dolla Denver, CO 80206

Telephone: (303) -398-1432

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery out not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquilizings would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	:				
5. Cats	:				
6. Guinea Pigs	14	43			43
7. Hamsters			4		9
8. Rabbits	,2.7	\$3	3	:	36
9. Non-human Primates					
10. Sheep		i/			4
11. Pigs					
12. Other Farm Animals					
13. Other Animals		:			
				:	
ACCUIDANCE CTATEMENT	•				1

SURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reserved teaching, testing, surgery, or experimentation were followed by this research facility.
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- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and apr institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL at or Legally Responsible Institutional Official)	-
PANE & TITLE OF O.E.O. OR MOTIFICATIONAL GERICIA. (T.	DATE SIGNED

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 84-R-0003 CUSTOMER NUMBER: 1195

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Colorado State University 203 Administration Fort Collins, CO 80523

Telephone: (303) -491-7364

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

A. Animals Covered By The Animal Welfare Regulations	B.	Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquility drugs would have adversely affected the procedures, resort interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs			32	. 43		75
5. Cats		73	6	159		165
6. Guinea Pigs			299			299
7. Hamsters				96		96
8. Rabbits			131			131
9. Non-human Primates						
10. Sheep	!	157	56	269	·	325
11. Pigs	:			309		309
12. Other Farm Animals						
13. Other Animals			:			
Alpaca			10	,		10
Bats				1,495		1,495
Cattle			12	4		16

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reservances. teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and app Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.

The attending veterinarian f	for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to over	ersee the adequacy of other aspects of animal care and use.
	CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICE	AL
	(Chief Executive Officer or Legally Responsible Institutional Official)	
-	:	
	" ,	DATE SIGNED
		11,10,0
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See reverse side for additional information.

Interagency Report Control No. 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

84-R-0003

FORM APPROVED OMB NO. 0579-0036

HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Colorado State University 203 Administration Fort Collins, CO 80523

Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in leaching, testing, experiments, research, or surgery but not	C Number of animals upon which leaching, research, experiments, or tests were conducted involving no pain, distress, or	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these	TOTAL NO OF ANIMAL (Cols. C - D + E)
12. &/OR 13. Other (List by species)	yet used for such purposes.	use of pain- relieving drugs.	tranquilizing drugs were used.	animals and the reasons such drugs were not used must be attached to this report).	J
Ferrets		38	8		46
Horses			82		82
Lemmings			10		10
Llamas		20			20
Marmots		· · · · · · · · · · · · · · · · · · ·	21		21
Voles			20		20

- 1). Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

- 3). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the listitutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4). The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

MAME & TITLE DE CE O OF WICTITUTIONAL OFFICIAL CO.

DATE SIGNED

11/18/02

See attached form for additional information.

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 84-R-0008 CUSTOMER NUMBER: 1087

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Univ. Of Northern Colorado Pres.'S Office, Carter 4000 Dept. Of Biological Sciences Greeley, CO 80639

Telephone: (970) -351-2921

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred. conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for withe use of appropriate anesthetic, analgesic, or tranquill drugs would have adversely affected the procedures, reor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reas such drugs were not used must be attached to this repo	OF ANIMALS (COLUMNS C + D + E)
4. Dogs	0				0
5. Cats	0				0
6. Guinea Pigs	0				0
/. Hamsters	0			·	0
3. Rabbits	0				0
). Non-human Primates	0				0
0. Sheep	0				0
1, Pigs	0				0
2. Other Farm Animals	G				O
3. Other Animals	С				0
				:	
ASSURANCE STATEMENTS	3				
teaching, testing, surg 2) Each principal investig 3) This facility is adhering institutional Animal Cabrief explanation of the	ery, or experimentation wer gator has considered alterna g to the standards and regul are and Use Committee (IAC e exceptions, as well as the	e followed by this research of the stress to painful procedures. I attors under the Act, and it curch. A summary of all surspecies and number of aning that appropriate authority to CERTIFICATION BY	acility. has required that exceptions to the stath exceptions is attached to this anitals affected.		ipal investigator and auc options, this summary in
SIGN			NAME & TITLE OF CEO. C	OR INSTITUTIONAL OFFICIAL / Tune or Print)	DATE SIGNED

ich is obsolete.)

(AUG 91)

This report is required by law result in an order to cease a					See attached form for additional information.	Interesticy report control rec.
	D STATES DEPARTME . AND PLANT HEALTH				ATE NUMBER: 84-R-0011 MER NUMBER: 1089	FORM APPROVED OMB NO. 0579-0036
ANNUA	L REPORT OF F (TYPE OR		CILITY	Wester Gunnis	n State College n State College on, CO 81231 one: (970) -943-2114	
3. REPORTING FACILITY (List all locations where anim	nals were housed or used in	actual research, test	ing, or experimen	station, or held for these purposes. Attach add	itional sheets if necessary)
Hurst 2	35B	FACIL	LITY LOCATIONS	(Sites) - See	Atached Listing	
REPORT OF ANIMALS	USED BY OR UNDER	CONTROL OF RESEAR	RCH FACILITY (At	tach additions	al sheets if necessary or use APHIS Fo	orm 7023A)
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of an which experint teaching, rest surgery, or te conducted invaccompanyind distress to the for which app anesthetic, ar tranquilizing quised.	nents, earch, sts were volving g pain or e animals an ropriate nalgesic, or	E. Number of animals upon which teachin research, surgery or tests were conduct accompanying pain or distress to the atte use of appropriate anesthetic, analy drugs would have adversely affected the or interpretation of the teaching, resear surgery, or tests. (An explanation of the producing pain or distress in these anim such drugs were not used must be attained.	nimals and for wh lesic, or tranquiliz e procedures, resch, experiments, e procedures hals and the reasc C + D + I
4. Dogs						
5. Cats						
6. Guinea Pigs						
7. Hamsters						
8. Rabbits						
9. Non-human Primates						
10. Sheep						
11. Pigs						
12. Other Farm Animals				,		
13. Other Animals						
wild rodents		66				66

ASSURANCE STATEMENTS

(see addendum)

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reservacions, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and applicational Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in-brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)					
SIG	N.	'E SIGNED 11/1/0			
APHI	h is obsolete.)				

(AUG 91)

Summary of Small Mammal Trapping Activity: 2002 (31 October 2002) (b)(6)

Date	Species	Males	Females	Unknowns	Total
10 April	None				
11 April	Deer Mouse	4	1	1	6
	Peromyscus maniculatus				
	Western Harvest Mouse	3	1	0	4
	Reithrodontomys			-	
	megolotis				
12 April	Deer Mouse	3	2	1	6
	Peromyscus maniculatus				
13 April	Deer Mouse	12	1	1	14
	Peromyscus maniculatus				
	Western Harvest Mouse	0	1	0	1
	Reithrodontomys				
	megolotis				
15 April	Deer Mouse	9	6	0	15
	Peromyscus maniculatus				
	Water Shrew	0	1	0	1
	Sorex palustris				
16 April	Deer Mouse	12	1	3	16
	Peromyscus maniculatus				
	Western Harvest Mouse	1	1	0	2
	Reithrodontomys				
	megolotis				
	Least Chipmunk	1	0	0	1
· · · · · · · · · · · · · · · · · · ·	Tamias minimus				
All Dates	Charies	Males	Females	TT	T-4-1
All Dates	Species			Unknowns	Total
	Deer Mouse	40	11	6	57
	Peromyscus maniculatus Western Harvest Mouse	4	3	0	7
		4	3	U	1
	Reithrodontomys				
	megolotis Water Shrew	0	1	0	1
	Sorex palustris	10	1		1
		1	0	0	1
	Least Chipmunk Tamias minimus	1	١٥	0	1
	Tamus minimus	 			
All Dates	All Species Total	45	15	6	66

Total Mortalities: 3 Peromyscus maniculatus (2 males, 1 unknown)

See attached form for additional information. Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 84-R-0012

CUSTOMER NUMBER: 1090

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Colorado Mountain College 3000 County Road 114 Glenwood Spgs, CO 81601

Telephone: (970) -945-8691

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS	USED BY OR UNDER	CONTROL OF RESEAF	RCH FACILITY (Attach addition	nal sheets if necessary or use APHIS Form 7023A)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals en for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animats upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animats and for whithe use of appropriate anesthetic, analgesic, or tranquility drugs would have adversely affected the procedures, rese or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasc such drugs were not used must be attached to this repon	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	\overline{C}	1'7	\mathcal{O}	C	17
5. Cats	()	1:7	C	Ĺ Ĺ	17
6. Guinea Pigs	()	3	C	T.	3
7. Hamsters		0	\overline{C}	C	
8. Rabbits	. (3	C	C	3
9. Non-human Primates	(.	Ö	C	C	\overline{c}
10. Sheep	C	5	U	C	5
11. Pigs	Ü	3	0	C	
12. Other Farm Animals	<u> </u>	$\overline{\varphi}$	C	C	6
13. Other Animals	<u> </u>		U U	· · · · · · · · · · · · · · · · · · ·	8
(7041) LIGMAD	(3	<u>()</u>	C C	(; 3

ASSURANCE STATEMENTS

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- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION B	Y HEADQUARTERS !	RESEARCH FA	CILITY OFFICIAL
/ Chief Executive	Officer or Lengthy Res	nancible Inclind	ional Official \

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

SIC

See attached form for additional information.

interagency report Control No...

FORM APPROVED

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 84-R-0013

CUSTOMER NUMBER: 1092

OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Bel-Rea Inst. Of Animal Tech. 1681 South Dayton Street Denver, CO 80231

Telephone: (303) -751-8700

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS	USED BY OR UNDER	CONTROL OF RESEAF	RCH FACILITY (Attach addition	nal sheets if necessary or use APHIS Form 7023A)	
A. Animals Covered By The Animal Wetfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, expenments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasc such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	2	3			3
5. Cats		3			3
6. Guinea Pigs		7			7
7. Hamsters		14			14
8. Rabbits		5			5
9. Non-human Primates					
10. Sheep			İ	!	
11. Pigs					
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

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- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

CERTIFICATION BY HEADQUARTERS RESEARCE (Chief Executive Officer or Legally Responsible I		
NAN	L OFFICIAL (Type or Print)	DATE SIGNED

See attached form for additional information.

Interagency ikaport Control Ivo.

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 84-R-0014

CUSTOMER NUMBER: 8223

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Colorado College 14 E. Cache La Poudre Colorado Spgs, CO 80903

Telephone: (719) -389-6000

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use o pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquitiz drugs would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C+D+E)
4. Dogs	0	0	\mathcal{O}		0
5. Cats	0	0	0	0	Ō
6. Guinea Pigs	0	0	0	Ö	
7. Hamsters	0	0	0		\Box
8. Rabbits	0	0	0	0	\mathcal{O}
9. Non-human Primates	0	0	0	0	0
10. Sheep	0		ව	0	0
11. Pigs	0	0	0		
12. Other Farm Animals	0	0	0		0
3. Other Animals	D		0	0	0

ASSURANCE STATEMENTS

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- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reserved teaching, testing, surgery, or experimentation were followed by this research facility.
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	CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)	
SIGNATU	N	DATE SIGNED
		11-5-02
APHIS FC	hich is obsolete.)	

See reverse side for additional information

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 84-R-0016

CUSTOMER NO. 1094 FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

sheets if necessary.)

HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

DENVER HEALTH MEDICAL CENTER

DENVER HEALTH MEDICAL CENTER 777 BANNOCK ST. DENVER, CO 80204

DENVER HEALTH MEDICAL DENVER, CO 80204	CENTER				
REPORT OF ANIMALS USED BY	OR UNDER CONTROL O	IF RESEARCH FACILITY	((Attach additional sheets if nece	ssarv or use APHIS FORM 7023A }	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs			·		
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-Human Primates					
10. Sheep					
11. Pigs		24			24
12. Other Farm Animals					
Goat		8			8
13. Other Animals					
ASSURANCE STATEMENTS					
ASSURANCE STATEMENTS					

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional

FACILITY LOCATIONS(sites)

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

(Chief Executi	N BY HEADQUARTERS RESEARCH FACILITY OFFICIAL ve Officer or Legally Responsible Institutional official) ne above is true, correct, and complete (7 U.S.C. Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		10/17/2002

* This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

additional information

D180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 84-R-0021

CUSTOMER NO. 8224

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT) .

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code) FORT LEWIS COLLEGE

1000 RIM DR. DURANGO, CO 81301 (970) 247-7010

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS(sites)

See Attached Listing

Biology Dept. Berndt Hall Site OOL

A. Animais Covered By The Animal Welfare Regulations	Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-retleving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate sneathetic, anelgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analysis, or tranquitizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs			·		
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-Human Primates			·		
10. Sheep				·	
11. Pigs					
12. Other Farm Animals					
				·	
13. Other Animals					
Swiss Webskry	nice 36	20	20		20
Swiss Webskry Leopard Frogs	12	12	12		12
/					

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report in addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending valerinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

(Chief Executive O	HEADQUARTERS RESEARCH FACILITY OFFICIAL fficer or Legally Responsible Institutional official) ove is true, correct, and complets (7 U.S.C. Section 2143)	
A CONTRACTOR OF THE CONTRACTOR	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Pri	DATE SIGNED
t 85), whi	CN IS COSCIETE	-HEADQUARTERS

This report is required by law (7 USC 2143). Failure to report according to the regulations can
result in an order to cease and desist and to be subject to penalties as provided for in Section 215.

See attached form for additional information.

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 84-R-0045

CUSTOMER NUMBER: 1096

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Colorado Division Of Wildlife 317 W. Prospect Rd. Fort Collins, CO 80526

Telephone: (303) -297-1192

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research: testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

A.	B. Number of animat being bred,	C. Number of animals upon	D. Number of animals upon which experiments,	Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving.	F.
Animals Covered By The Animal Welfare Regulations	conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	accompanying pain or distress to the animals and for when use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, restor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this repondance.)	TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters				i :	
8. Rabbits					
9. Non-human Primates					
10. Sheep				!	
11. Pigs					
12. Other Farm Animals					
Cattle		11 i			11
13. Other Animals				:	
Bighorn Sheep	52				0
Elk	4	18			18
Mule Deer	46	18	62		80

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reseteaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and applicational Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

	CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)	
s	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED

CT 88), which is obsolete.)

See reverse side for additional information.

Interagency Report Control No. 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

FORM APPROVED OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA include Zip Code)

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

			<u> </u>		
REPORT OF ANIMALS USED BY O		RESEARCH FACILITY	(Attach adiditional sheets if ne	cessary or use this form)	
A. Animals Covered By The Animal Wellare Regulations 12. &/OR 13. Other (List by species)	B Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yel used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, leaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which feaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO. OF ANIMALS (Cols. C + D + E)
Pronghorn Antelope	10		10		10
White-tailed Deer	18	9	13		22
Fallow Deer	18		25		25
Domestic Ferret		21			21
Mountain Lion		3			3
ASSURANCE STATEMENTS					

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, lesting, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures.
- 3). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4). The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Legally that the above is true, correct, and complete (7 U.S.C. Section 2143)						
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED				
		10/30/02				

Ses attached form for appropriation.

Interagency Report Control No.

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 84.

CUSTOMER NUMBER: 1286

84-R-0052

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

Osi Pharmaceuticals 2860 Wilderness Place Boulder. CO 80301

Telephone: (303) -444-5893

3. REPORTING FACILITY : List all locations where animals were noused or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sneets if necessary

FACILITY LOCATIONS (Siles) - See Atachec Listing

REPORT OF ANIMALS	USE	D BY OR UNDER	CON	ROL OF RESEA	RCH F	ACILITY (Attach additio	nai si	neets if necessary or use APHIS Form 7023A)	
A. Animals Covered By The Animal Welfare Regulations	B .	Number of animal being pred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	c.	Number of animats upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use o pain-relieving crugs.	D.	Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anestnetic, analgesic, or transulizing drugs were used.	E	Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquitized drugs would have adversely affected the procedures, resigner, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such orags were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	1				İ				0
5. Cats	 			.,					0
6. Guinea Pigs	!								0
7. Hamsters							-		0
8. Rabbits	!			21	1		-		21
9. Non-human Primates	;						<i>-</i>		0
10. Sheep	!				:				0
11. Pigs	:	,,							0
12. Other Farm Animais					:		 		0
13. Other Animals	 : 				<u>:</u>				0
									
					!			:	

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, buring, and following actual rese teaching, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and act institutions: Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, the summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The altending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the apequacy of other aspects of animal care and use.

	TION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL recutive Officer or Legally Responsible Institutional Official)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.D. OR INSTITUTIONAL OFFICIAL (Type or Frint)	DATE SIGNED
_		10/18/02

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 84-R-0055
CUSTOMER NUMBER: 1312

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

Healthone

1850 High Street

Denver, CO 80218

NEW ADDRESS HealthONE Alliance Research

899 Logan St. Suite 203 Denver, CO 80203-3154

Telephone: (303) -839-6821

SAME PHONE NUMBER

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS	USED BY OR UNDER	CONTROL OF RESEAR	RCH FACILITY / Attach addition	al sheets if necessary or use APHIS Form 7023A)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analysis, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, resion interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
I. Dogs			28		28
i. Cats					
i. Guinea Pigs					
'. Hamsters					
. Rabbits					
. Non-human Primates					
). Sheep					
1. Pigs					
2. Other Farm Animals			·		
3. Other Animals					

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reserves teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and application in its investigator and application in the standards and regulation is dentifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HE	ADQUARTERS RESEARCH FACILITY OFFICIAL or Legally Responsible Institutional Official)	
	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED 9/23/02

ID: 1312

5125 North Stapleton

L Customer in and one incurred

Drive

Denver, CO 80216 County: Denver Telephone (303)320-4061

See attached form for additional information Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 84-R-0056

CUSTOMER NUMBER: 1765

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Unigen Univera Pharmaceuticals, Inc. 100 Technology Drive, Ste. 160 Broomfield, CO 80021

Telephone: (303) -438-8666

3. REPORTING FACILITY (List all locations where enimals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

A. Animals Covered By The Animal Welfare Regulations	В.	Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C.	Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use opain-relieving drugs.	D.	Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthatic, analgesic, or tranquilizing drugs were used.	: E	Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquilizings would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs			1		[
5. Cats									
6. Guinea Pigs						2			
7. Hamsters								:	
8. Rabbits							_		
9. Ion-human Primates							T		
10. Sheep]		T		
11. Pigs			-		1		T		
12. Other Farm Animals					<u> </u>		 		
13. Other Animals					· 		<u> </u>		
						<u> </u>			
							:	· ·	

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, pnor to, during, and following actual reservances. teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and app Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFF ecutive Officer or Legally Responsible Institutional Official	
	DATE SIGNED

see allaurieu iomi ior additional information.

interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 84-R-0057

CUSTOMER NUMBER: 1783

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Bolder Path, Inc. Univ. Of Colorado At Boulder Mcdb Campus Box 347 Boulder, CO 80309

Telephone: (303) -735-5001

3. REPORTING FACILITY (List ali locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	O. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgestic, or tranquilitz drugs would have adversely affected the procedures, resion interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this repor-	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs					
5. Cats		-			
6. Guinea Pigs	0	$\overline{}$	5		5
7. Hamsters			··· · · · · · · · · · · · · · · ·		
8. Rabbits	:	İ			
9. Non-human Primates					
10. Sheep					
11. Pigs	1			i	
12. Other Farm Animals					
	!				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
3. Other Animals					
ASSURANCE STATEMENTS	<u></u> _	L		1	

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual resenteaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.

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- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximation. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals effected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

	CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)						
	NA	or Print)	DATE SIGNED				
88), which is obsolete.)			1//20				

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UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 84-R-0058 CUSTOMER NUMBER: 1784

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

A M C Cancer Research Center 1600 Pierce Street Lakewood, CO 80214

Telephone: (303) -239-3561

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

Animals Covered By The Animal Welfare Regulations	!	being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.		animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.		Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.		Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. { An explanation of the procedures producing pain or distress in these animals and the reask such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs								· · · · · · · · · · · · · · · · · · ·	
5. Cats								man or a second additional and a second and a second and a second and a second and a second and a second and a	
6. Guinea Pigs								The second section of the second section of the second section of the second section s	
7. Hamsters							-		
8. Rabbits									
9. Non-human Primates									
0. Sheep			-		_		1		
1. Pigs					· - ·•·				
2. Other Farm Animals							<u> </u>	· · · · · · · · · · · · · · · · · · ·	
3. Other Animals		<u> </u>							
MICE	• •	0		673		141	:	· · · · · · · · · · · · · · · · · · ·	820
RA15		0		673 305		209	- ~		820 514

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reseteaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and applications. Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary inbrief explanation of the exceptions, as well as the species and number of animals affected.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)							
SIC		r Print)	DATE SIGNED				
APH	Solete /						

additional information.

1. CERTIFICATE NUMBER: 84-R-0060

FORM APPROVED OMB NO. 0579-0036

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

CUSTOMER NUMBER: 1835

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

University Of Colorado-Boulder **Department Of Animal Resources** C# 26

Boulder, CO 80309

Telephone: (303) -492-2890

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS	USED BY OR UNDE	R CONTROL OF RESEAR	RCH FACILITY (Attach addition	al sheets if necessary or use APHIS Form 7023A)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not y used for such purposes.	animals upon which teaching, research, experiments, or tests were conducted	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, resinterpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs	7.7				
7. Hamsters A. B. E.R. iAN) 8. Rabbits	549		50		50
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
ASSURANCE STATEMENTS	3				

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and app. Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

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	CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)	
SIGN		DATE SIGNED
APHIC	T 921 which is checlete)	+acocz



Customer ID and Site Address:

ID: 1835

Department Of Animal

Resources

Boulder, CO 80309 County: Boulder Telephone (303)492-2890

Customer ID and Site Address:

ID: 1835

Department Of Animal

Telephone 363 288-5778

Resources

505 Weld County Rd.

1901 DAHLIA ST.

16-1/2-

Longment, CO 80504 County: Boulder

HENDERSON, CO 80640

See attached form for additional information. Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 84-R-0061

CUSTOMER NUMBER: 10643

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

The Veterinary Referral Center Of Colorado 3550 S. Jason St. Englewood, CO 80110

Telephone: (303) -398-1313

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS Form 7023A)									
A. Animals Covered By The Animal Welfare Regulations	B.	Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C.	Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D.	Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.		Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for withe use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs									•
5. Cats	;		Ì	:					
6. Guinea Pigs		;					†		
7. Hamsters				:					· · · · · · · · · · · · · · · · ·
8. Rabbits					1		1		
9. Non-human Primates	:						1		
10. Sheep		:	,		 		÷		
11. Pigs		:	• • • • • • • • • • • • • • • • • • • •						
12. Other Farm Animals	-	:		· · · · · · · · · · · · · · · · · · ·					
13. Other Animals	1	· · · · · · · · · · · · · · · · · · ·	 						
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- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reservances. teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and app Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.

+) The alterioling veterman	man for this research racility has appropriate at	informs to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects	of animal care and use.
		TON BY HEADQUARTERS RESEARCH FACILITY OFFICIAL acutive Officer or Legally Responsible Institutional Official)	
St -	ICIAL	MAME & TITLE OF OF OR ANOTHER TROUBLE OFFICIAL (Time of Come)	DATE SIGNED

See anached form for additional information. interagency Report Controlino.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 84-R-0062 CUSTOMER NUMBER: 11855

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Mesa State College 1100 North Avenue Grand Junction, CO 81501

Telephone: (970) -248-1424

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, expenments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquilized drugs would have adversely affected the procedures, resion interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	OF ANIMALS (COLUMNS C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs	· · · · · · · · · · · · · · · · · · ·			• • • • • • • • • • • • • • • • • • • •	
7. Hamsters				i	
8. Rabbits					
9. Non-human Primates ;					
10. Sheep					
11. Pigs					
12. Other Farm Animals				<u> </u>	
13. Other Animals	 				
Deer Mice	86	26	0	10	26
White-Footed Mice	24	0	0	0	0
ASSURANCE STATEMENTS					

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reseteaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and app Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility h

y has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of o	ner aspects of animar care and use.
CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)	
	DATE SIGNED
	11/13/02

18), which is obsolete.)

See attached form for additional information.

Interlegence Markot Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 84-R-0063
CUSTOMER NUMBER: 14004

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Rxkinetix, Inc.

1172 Century Drive, Suite 260 Louisville, CO 80027

Telephone: (303) -926-1900

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

	`1	used.	such drugs were not used must be attached to this report	`C+D+E
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ASSURANCE STATEMENTS

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- 2) Each principal investigator has considered alternatives to painful procedures.
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4) The attending veterinarian	for this research facility has appropriate	authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects	of animal care and use.
		TION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL recutive Officer or Legally Responsible Institutional Official)	
SIGNATI	;IAL	THE A THE OF OF OR INSTITUTIONAL OFFICIAL /T OF OFFI	DATE SIGNED
APHIS FC	23 (OCT 88), which is	s obsolete.)	1740/04

See reverse side for additional information Interagency Report Control No. 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

2. HEADOUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, metado Zip Code)

TOTOPHE PROPERTY OF AS, INC. ROJEDGIE (D SOSO)

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these, purposes. Attach additional

FACILITY LOCATIONS (Sites)

2950 W. Iderness Place Boller-108030

A.	B. Number of	C Number of	D Number of annuals upon	cessary or use APHIS FORM 7023A.) E. Number of animals upon which feaching,	F.
Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or held for use in teaching, tristing, experiments, research, or surgery but not yet used for such purposes	animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the leaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	?	<u> </u>	ے ے		_22
5. Cats	,)	<i>)</i>			_5
6. Guinea Pigs)	<u> </u>)	.7)
7. Hamsters	.7)	<u> </u>		3
8. Rabbits	٥))	2	٥
9. Non-human Primates	5	?	<i>)</i>	.7	.>
10. Sheep	ئ	5	3	S	ح
11. Pigs	<u></u>	<u>.</u>)	· · · · · ·	2	حي
12. Other Farm Animals	٥	.)	j	.5	2
13. Other Animals	٥	3	J	3	

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, freatment, and use of animals, including approrate use of anesthetic, analgesic, and franquitizing drugs, prior to, during. and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
- 2). Each principal investigator has considered alternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary core and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

Lernity that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

DATE SIGNED 10/29/09

8), which is c

This report is required by lew (7 USC 2143). Failure to report according to the regulations can result in an order to cause and desixt and to be explicit to penalties se provided for in Section 215.

See attached form for additional information. Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NAMED: 84-R-0065 CUSTOMER NUMBER: 18462

FORM APPROVED OMB NO. 0579-0038

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Rocky Mountain Bio Labs P O Box 519 Created Butte, CO 81224

Telephone: (907) -349-7231

3. REPORTING FACILITY (List all locations where enimals were housed or used in actual research, basing, or experimentation, or held for these purposes. Attach additional sheets it necessary)

FACILITY LOCATIONS (Sides) - See Absorbed Linking Rocky Mtn Bio Las

REPORT OF ANNALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sharts if necessary or use APHS Form 7623A)									
Anious Covered By The Animal Walters Regulations	_	Number of entered being bred, conditioned, or held for use in leaching, testing, espainments, research, or surjecty but not ye used for such purposes.	C.		_	hiumber of animula upon which experiments, teaching, revearch, surgery, or bests were conducted involving, accompanying pain or distress to the enimete an for which appropriate anestratic, analyses, or tranquitizing drugs were used.		Number of mimals upon which teaching, departments, research, surgery or tests were conducted involving accompanying pain or distress to the entitles and for whithe use of appropriate anyethetic, enelgosis; or transpills drugs would have adversely affected the procedures, research, research, research, experiments, aurgary, or tests. (An explanation of the procedures, producing pain or distress in these animals and the research drugs were not used must be attached to this report	F. TOTAL MUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs									
5. Cats									
6. Guinea Pigs									
7. Hamsters	_			AND					
8. Rabbits			-						
9. Non-human Primates									
10. Sheep			\Box						
11. Pigs									
12. Other Farm Animais									
13. Other Animals									
Brook-Trout				5					5
Broad - wailed hu		which		43-				•	47
ASSURANCE STATEMENTS	-		 -				-		

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- 1) Professionally acceptable standards governing the care, treatment, and use of enimets, including appropriate use of anestable, analyses, and tranquitzing drugs, prior to, during, and following actual rates teaching, seeting, surgery, or experimentation were followed by this research facility.
- 2) Each principal imestigator has considered alternatives to painful procedures.
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CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)								
:	N	TICIAL (Type of Print)	DATE SIGNED					
7	OFT BB) which is obsolete t							